

PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference YCT-884		FOR FURTHER ACTION		See Form PCT/IPEA/416			
International application No.		International filing date	(day/month/year)	Priority date (day/month/year)			
		07 November 2003	3 (07.11.2003)	07 November 2002 (07.11.2002)			
Interna	tional Patent Classification (IPC) or n D21C 9/00, D21H 11/14	lational classification and	IPC				
Applica	ant NI	PPON PAPER INDU	STRIES CO., L	TD.			
1.	This report is the international preli Authority under Article 35 and tran	minary examination repor smitted to the applicant ac	t, established by this cording to Article 3	International Preliminary Examining 6.			
2.	2. This REPORT consists of a total of 3 sheets, including this cover sheet.						
3.	This report is also accompanied by						
1	a. (sent to the applicant and	d to the International Bure	eau) a total of 3	sheets, as follows:			
sheets of the description, claims and/or drawings which have been amended and are the basis of this reand/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 or Administrative Instructions).							
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(, containing a sequence listing and/or tables related thereto, in compure readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of Administrative Instructions).							
4. This report contains indications relating to the following items:							
Box No. I Basis of the report							
1	Box No. II Priority						
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
	Box No. IV Lack of unity of invention						
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
ŀ	Box No. VI Certain documents cited						
Box No. VII Certain defects in the international application							
Box No. VIII Certain observations on the international application							
Date	e of submission of the demand		Date of completion	n of this report			
	23 April 2004 (23.0	4.2004)	01	February 2005 (01.02.2005)			
Nan	ne and mailing address of the IPEA/I	P	Authorized officer				
Fac	simile No.		Telephone No.				
	- · · ·						

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/014209

Box No	. I	Basis of the report							
1. With other	regard wise in	to the language, this report is base dicated under this item.	d on the international application in the lang	guage in which it was filed, unless					
	This report is based on translations from the original language into the following language which is language of a translation furnished for the purpose of:								
	international search (under Rules 12.3 and 23.1(b)) publication of the international application (under Rule 12.4)								
		international preliminary examination (under Rules 55.2 and/or 55.3)							
jurni	re not a	the receiving Office in response to annexed to this report): ternational application as originally	onal application, this report is based on (o an invitation under Article 14 are referred y filed/furnished	replacement sheets which have been I to in this report as "originally filed"					
\boxtimes		scription:							
	pages		1-9	, as originally filed/furnished					
	pages'		received by this Authority on	18 October 2004 (18.10.2004)					
	pages*		received by this Authority on						
\boxtimes	the cla	ims:							
	pages		3	, as originally filed/furnished					
	pages*		, as amended (toge	ther with any statement) under Article 19					
	pages*		received by this Authority on	18 October 2004 (18.10.2004)					
	pages*		received by this Authority on						
\boxtimes	the dra	wings:	•						
	pages		1-4	, as originally filed/furnished					
	pages*		received by this Authority on	, as originary modification					
	pages*		received by this Authority on						
	a sequi	ence listing and/or any related table	(s) – see Supplemental Box Relating to Seq	vonce I inti-					
<i>ي</i> ــــــ	1	individually folding tubic	(a) see Supplemental Box Relating to Seq	dence Listing.					
. 🖂	(TO)								
3. 🔀	The an	nendments have resulted in the can	cellation of:	·					
	<u> </u>	he description, pages	12						
	□ ¹	he claims, Nos.							
		the drawings, sheets/figs							
		the sequence listing (specify):							
		any table(s) related to sequence listing (specify):							
	made, (Rule 7	since they have been considered (70.2(c)). he description, pages he claims, Nos he drawings, sheets/figs he sequence listing (specify):	me of) the amendments annexed to this repto go beyond the disclosure as filed, as in the manner of t	port and listed below had not been indicated in the Supplemental Box					
* If item	4 appl	ies, some or all of those sheets may	be marked "superseded."						

International application No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

PCT/JP03/14209

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. Statement						
Novelt	y (N)	Claims		YES		
		Claims	1-5	NO		
Inventi	ive step (IS)	Claims		YES		
		Claims	1-5	NO		
Industr	rial applicability (IA)	Claims	1-5	YES		
		Claims		NO		

2. Citations and explanations (Rule 70.7)

Claims 1-5

Irradiating pulp with ultraviolet and/or visible light in the presence of at least one compound selected from a group consisting of reducing agents, peroxides and organic compounds capable of producing hydrogen is described in the following documents. For example, document 1 (paragraph [0007]) describes that the invention can be applied to all pulps including mechanical pulp, chemical pulp and waste paper pulp. So, even if the kind of pulp is specified, the invention of the present application is not different from the inventions described in the following documents. These documents do not particularly describe color resistance, but agree with the invention of the present application in the treatment for the pulp.

Therefore, the subject matters of claims 1-5 do not appear to be novel.

Documents:

Document 1: JP, 6-128890, A Document 2: WO, 84-00181, A Document 3: JP, 2002-88671, A Document 4: JP, 2002-88672, A Document 5: JP, 2002-88673, A